

# *Appendix C - 5*

*Summary of Nonradiological Monitoring Data*

**Table C - 5.1**  
**West Valley Demonstration Project State Pollutant Discharge Elimination System**  
**(SPDES) Sampling Program (effective September 1990)**

Outfall	Parameter	Limit	Sample Frequency
001 (Process and Storm Wastewater)	Flow	Monitor	2 per discharge
	Aluminum, total	14.0 mg/L	2 per discharge
	Ammonia (NH <sub>3</sub> )	*	2 per discharge
	Arsenic, dissolved	0.15 mg/L	2 per discharge
	BOD-5	**	2 per discharge
	Iron, total	**	2 per discharge
	Zinc, total recoverable	0.48 mg/L	2 per discharge
	Suspended solids	45.0 mg/L	2 per discharge
	Cyanide amenable to chlorination	0.022 mg/L	2 per discharge
	Settleable solids	0.3 mL/L	2 per discharge
	pH (range)	6.0 - 9.0	2 per discharge
	Oil and grease	15.0 mg/L	2 per discharge
	Sulfate	Monitor	2 per discharge
	Nitrate	Monitor	2 per discharge
	Nitrite	Monitor	2 per discharge
	Chromium (hexavalent), total rec.	Monitor	2 per discharge
	Cadmium, total recoverable	0.007 mg/L	2 per discharge
	Copper, total recoverable	0.03 mg/L	2 per discharge
	Lead, total recoverable	0.15 mg/L	2 per discharge
	Nickel, total	2.7 mg/L	2 per discharge
	Dichlorodifluoromethane	0.01 mg/L	2 per discharge
	Trichlorofluoromethane	0.01 mg/L	2 per discharge
	3,3-dichlorobenzidine	0.01 mg/L	2 per discharge
	Tributyl phosphate	32 mg/L	2 per discharge
	Vanadium	0.19 mg/L	2 per discharge
	Chromium, total	0.050 mg/L	annual
	Selenium, total	0.040 mg/L	annual
	Barium	0.5 mg/L	annual
	Antimony	1.0 mg/L	annual
	Chloroform	0.3 mg/L	annual
	Bis (2-ethylhexyl) phthalate	1.6 mg/L	semiannual
	4-dodecene	0.6 mg/L	semiannual
	007 (Sanitary and Utility Wastewater)	Flow	Monitor
Ammonia		*	3 per month
BOD-5		**	3 per month
Iron, total		**	3 per month
Suspended solids		45.0 mg/L	2 per month
Settleable solids		0.3 mL/L	weekly
pH (range)		6.0 - 9.0	weekly
Chloroform		0.020 mg/L	annual
008 (French Drain Wastewater)	Flow	Monitor	3 per month
	BOD-5	**	3 per month
	Iron, total	**	3 per month
	pH (range)	6.0 - 9.0	3 per month
	Silver, total	0.008 mg/L	annual
	Zinc, total	0.100 mg/L	annual

\* Reported as flow-weighted average of outfalls 001 and 007. Limit is 2.1 mg/L.

\*\* Reported as flow-weighted average of outfalls 001, 007, and 008. Limits are 5.0 mg/L for BOD-5 and 0.31 mg/L for iron. Iron data are net limits reported after background concentrations are subtracted.

**Table C - 5.2**

**West Valley Demonstration Project 1993 SPDES Noncompliance Episodes**

<b>Date</b>	<b>Outfall</b>	<b>Parameter</b>	<b>Limit</b>	<b>Value</b>	<b>Comments</b>
<b>May 5, 1993</b>	<i>WNSP007</i>	pH	6.0-9.0	9.86	<i>See Compliance Summary</i>

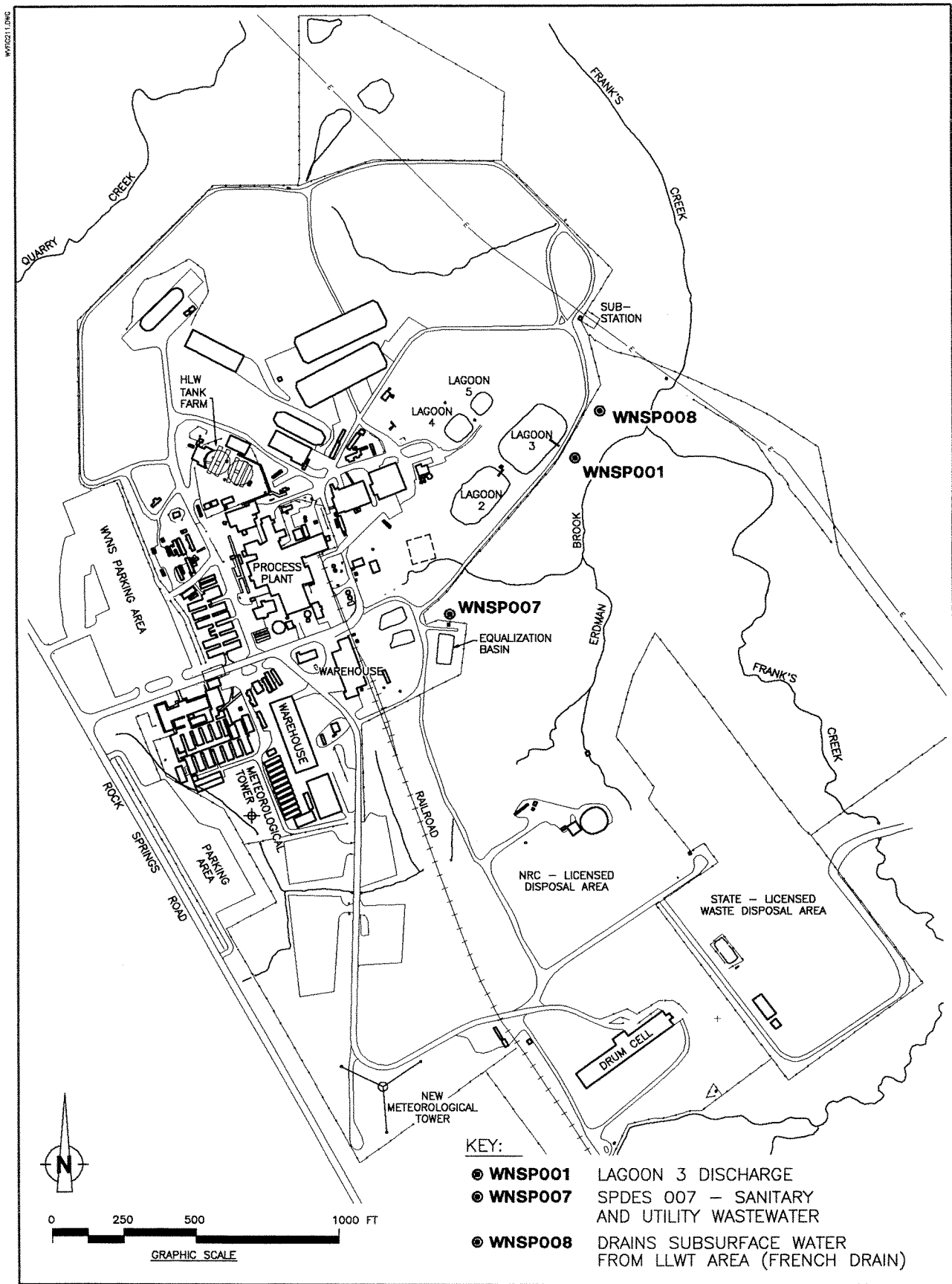
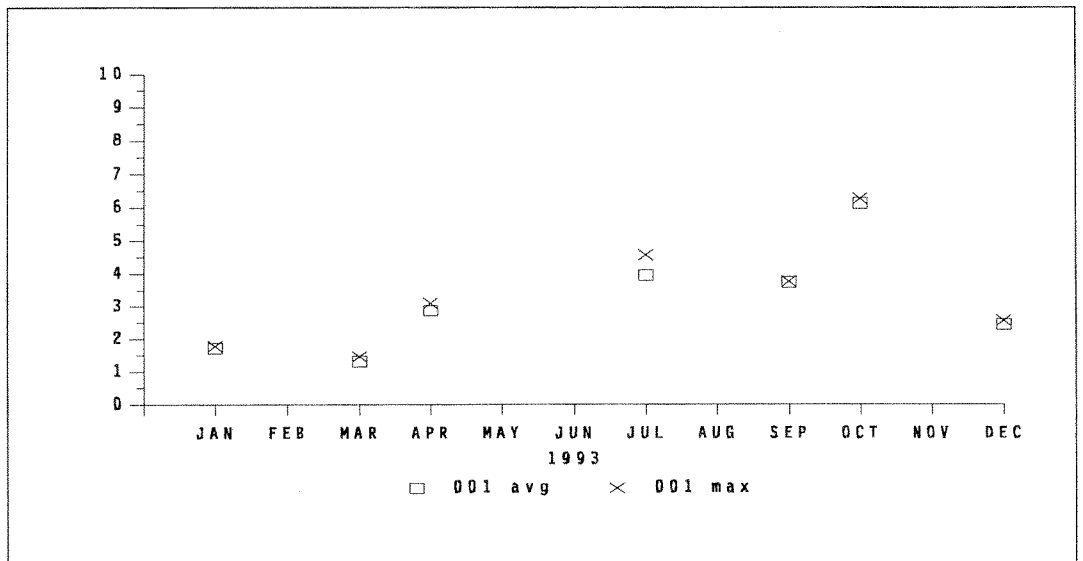


Figure C-5.1. SPDES Monitoring Points.

**Figure C - 5.2**

**BIOCHEMICAL  
OXYGEN  
DEMAND-5  
(mg/L)**

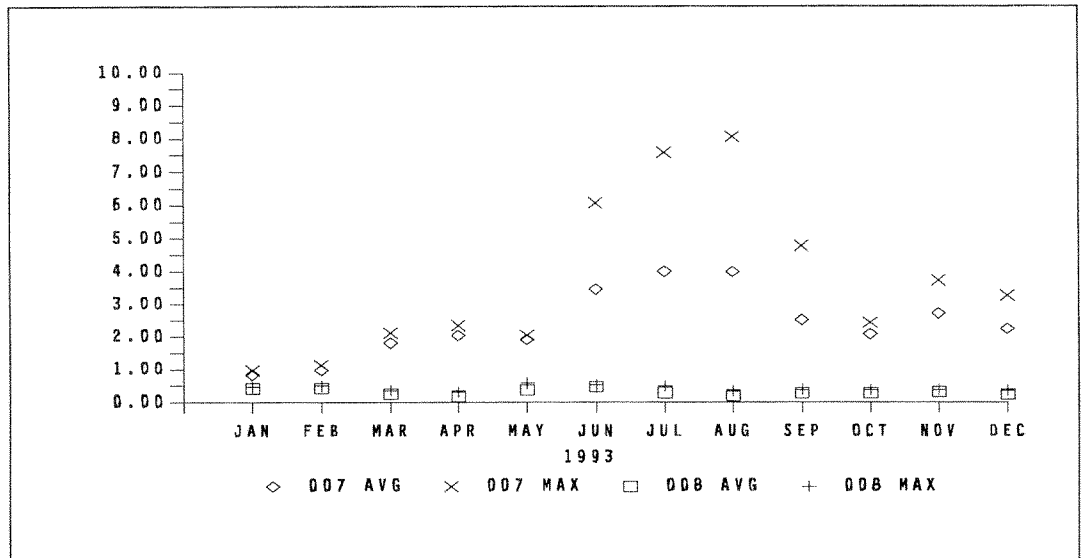
**Outfall 001**



**Figure C - 5.3**

**BIOCHEMICAL  
OXYGEN  
DEMAND-5  
(mg/L)**

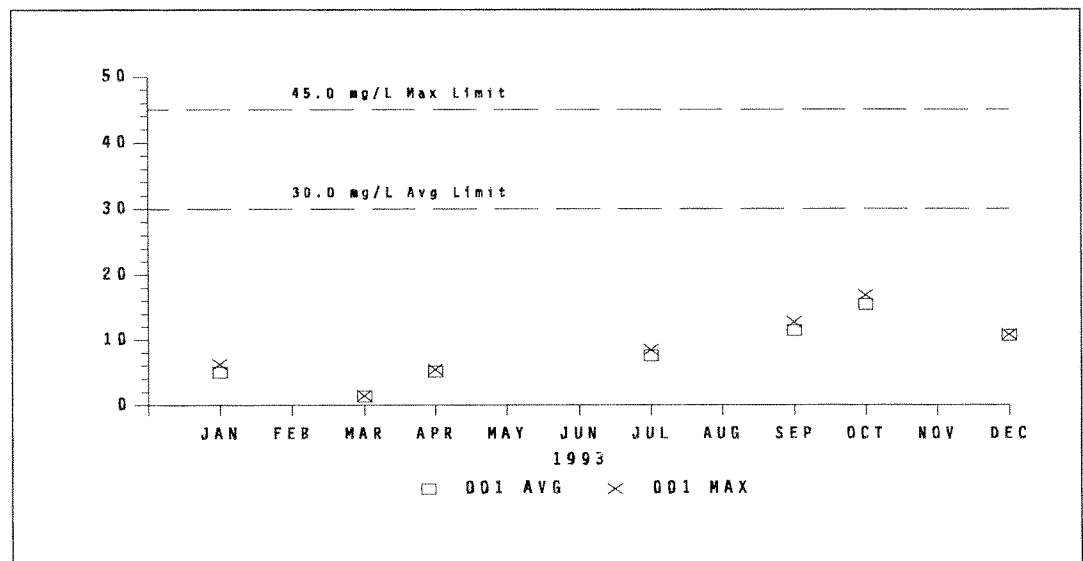
**Outfalls 007  
and 008**



**Figure C - 5.4**

**SUSPENDED  
SOLIDS  
(mg/L)**

**Outfall 001**



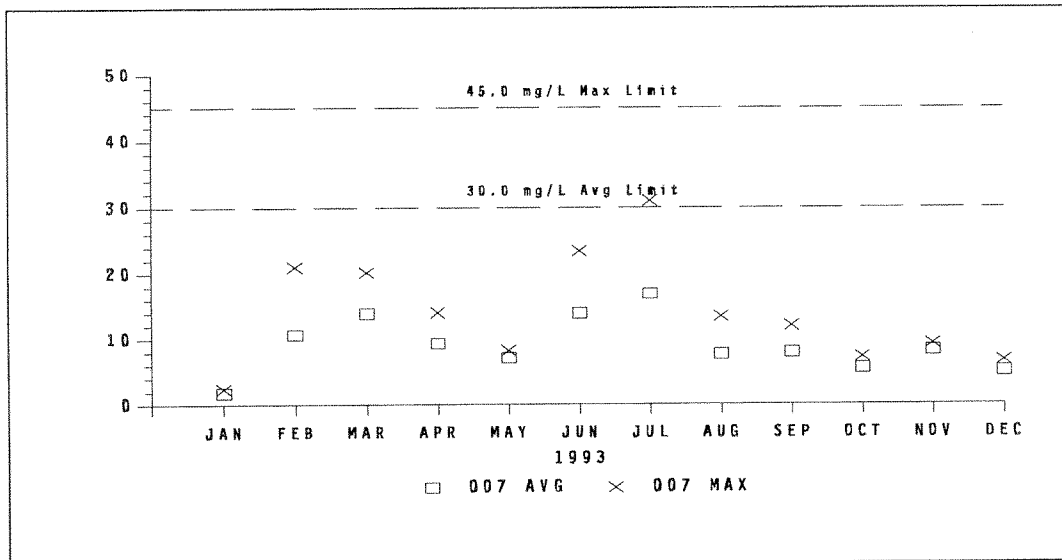


Figure C - 5.5

SUSPENDED SOLIDS (mg/L)

Outfall 007

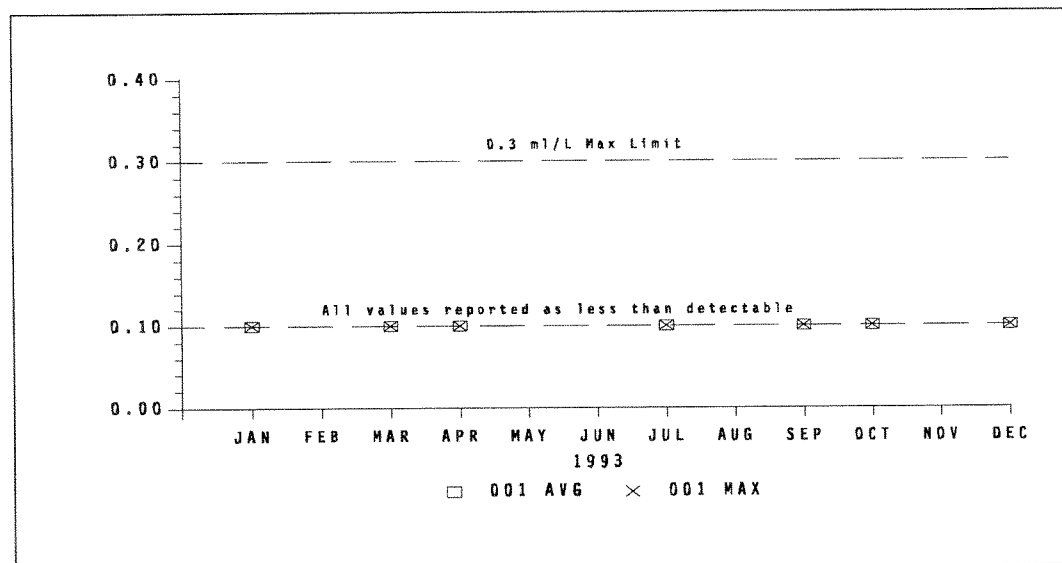


Figure C - 5.6

SETTLEABLE SOLIDS (ml/L)

Outfall 001

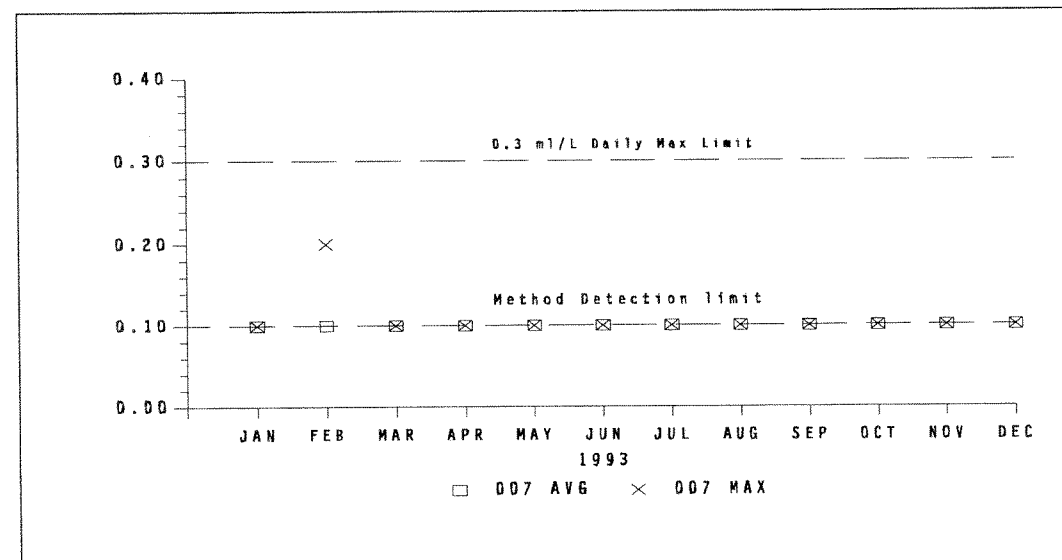


Figure C - 5.7

SETTLEABLE SOLIDS (ml/L)

Outfall 007

Figure C - 5.8

AMMONIA  
(mg/L)

Outfall 001

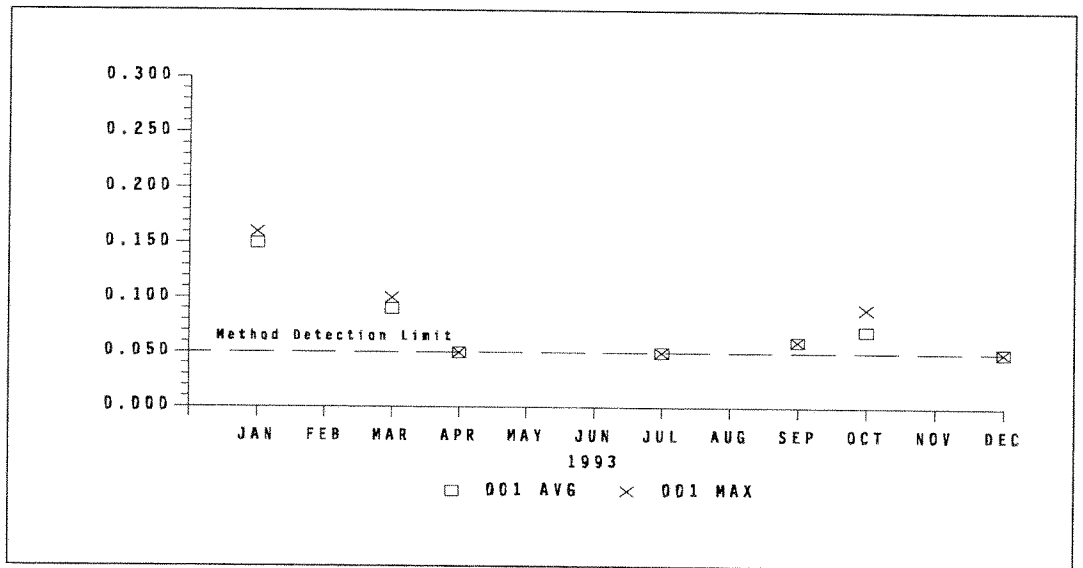


Figure C - 5.9

AMMONIA  
(mg/L)

Outfall 007

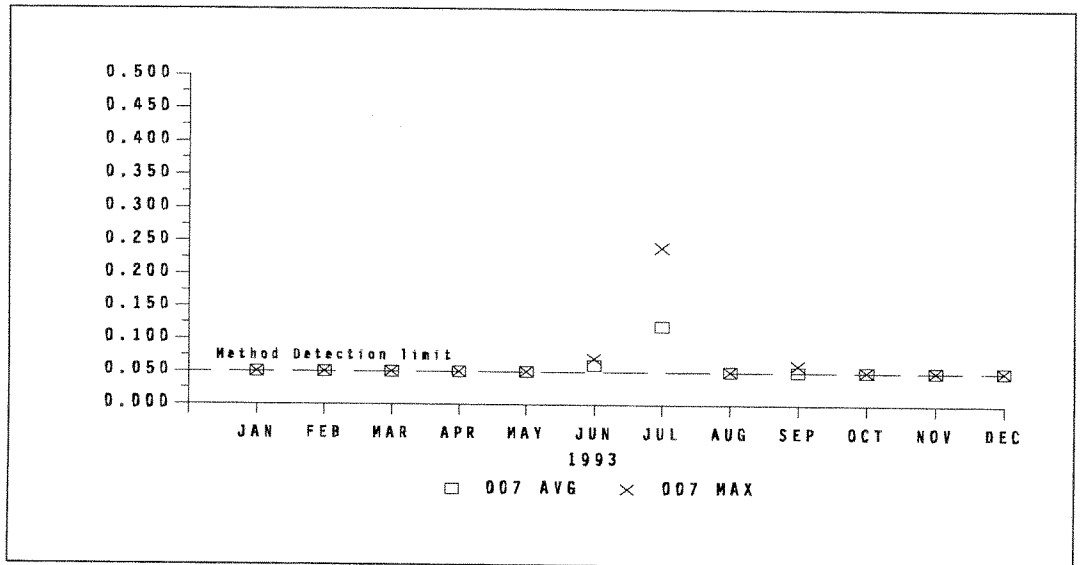
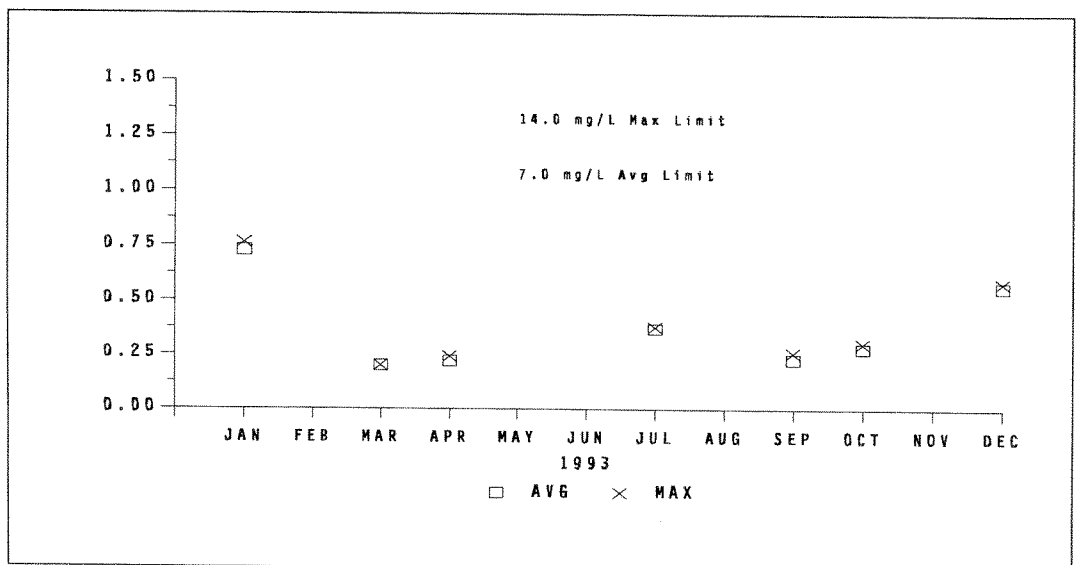
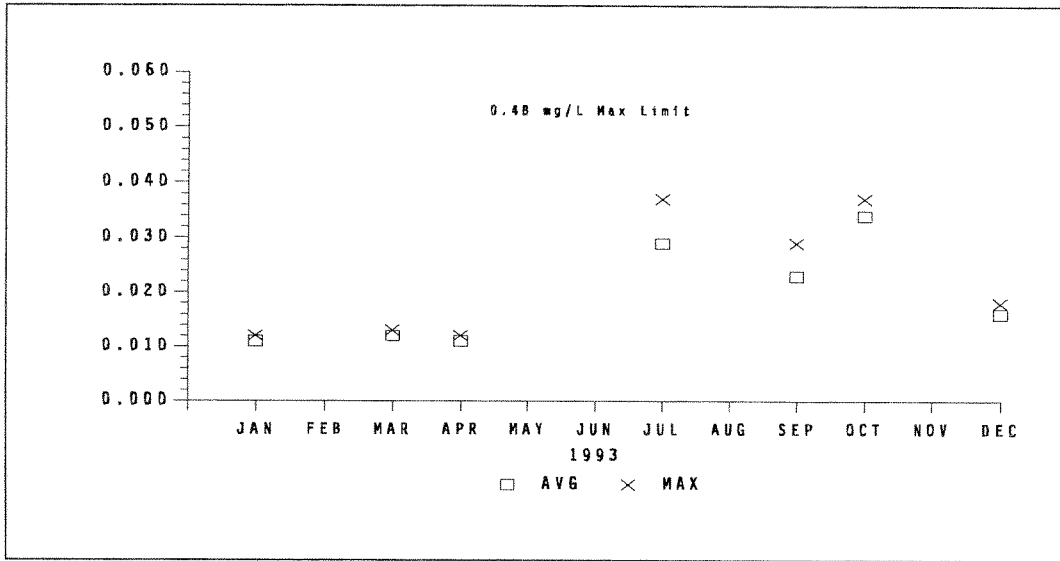


Figure C - 5.10

METALS (ALUMINUM)  
(mg/L)

Outfall 001

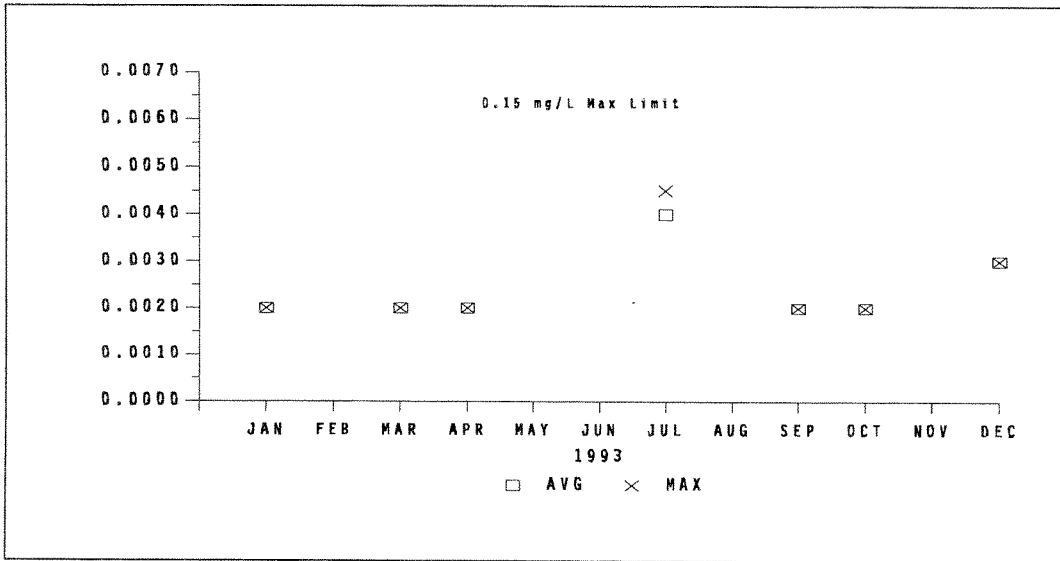




**Figure C - 5.11**

**METALS (ZINC)**  
(mg/L)

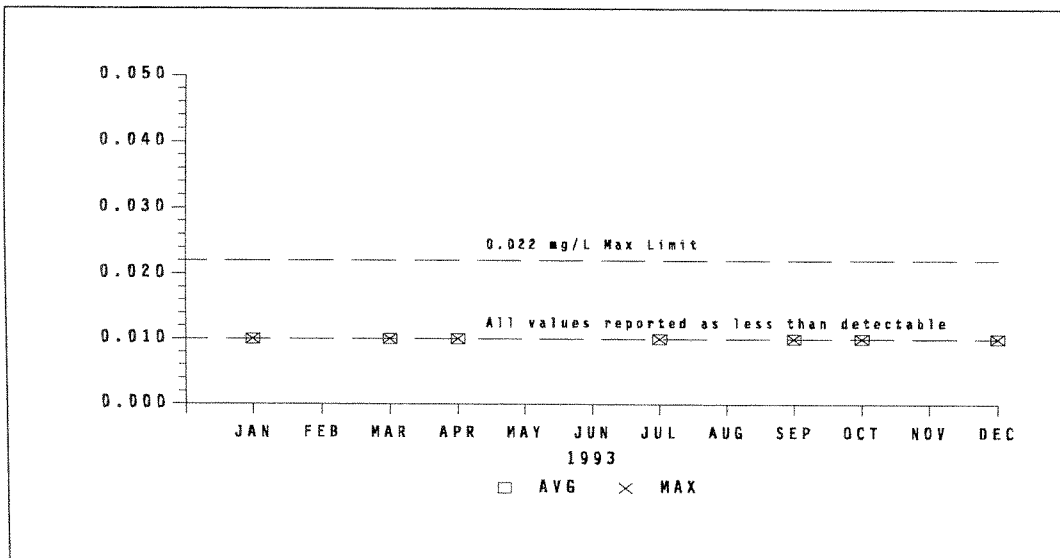
**Outfall 001**



**Figure C - 5.12**

**METALS (ARSENIC)**  
(mg/L)

**Outfall 001**



**Figure C - 5.13**

**CYANIDE**  
(mg/L)

**Outfall 001**



Figure C - 5.14

METALS (IRON)  
(mg/L)

Outfall 001

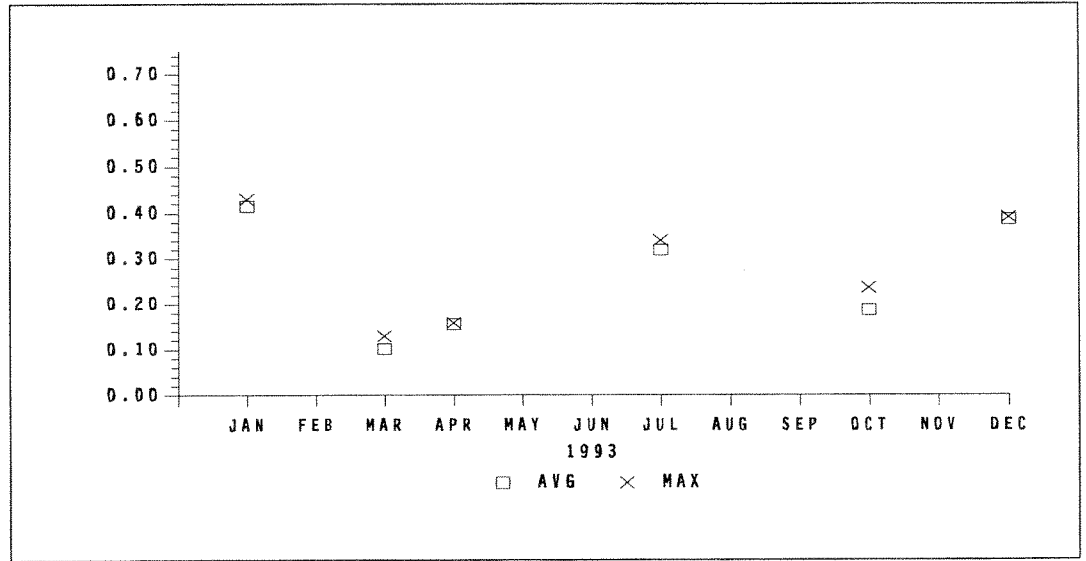


Figure C - 5.15

METALS (IRON)  
(mg/L)

Outfalls 007  
and 008

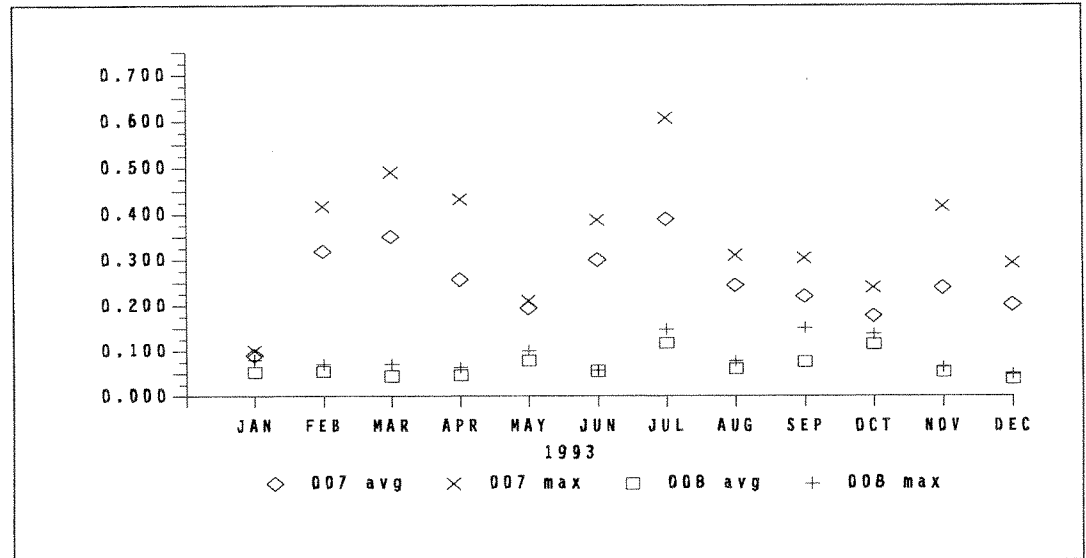
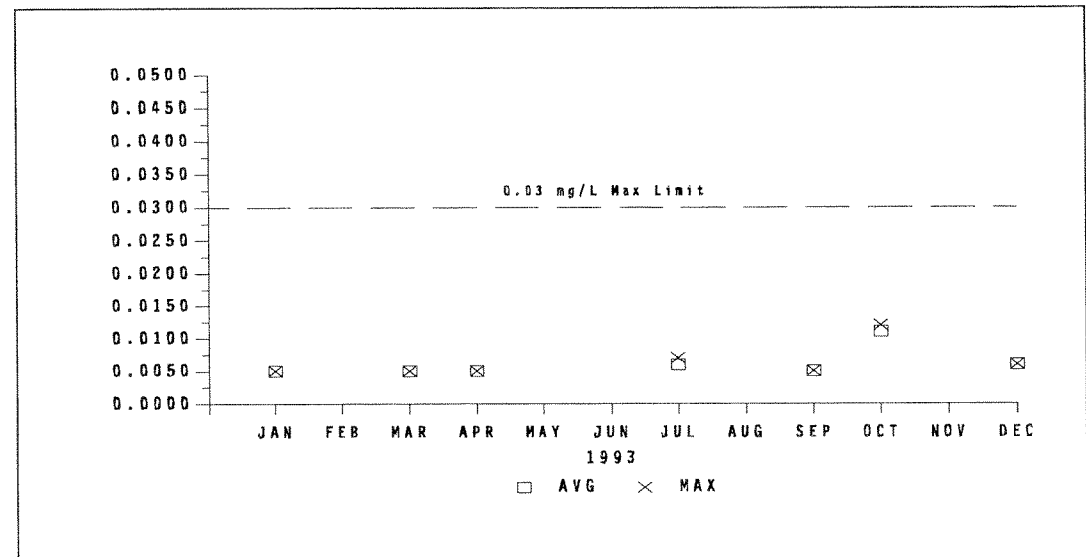
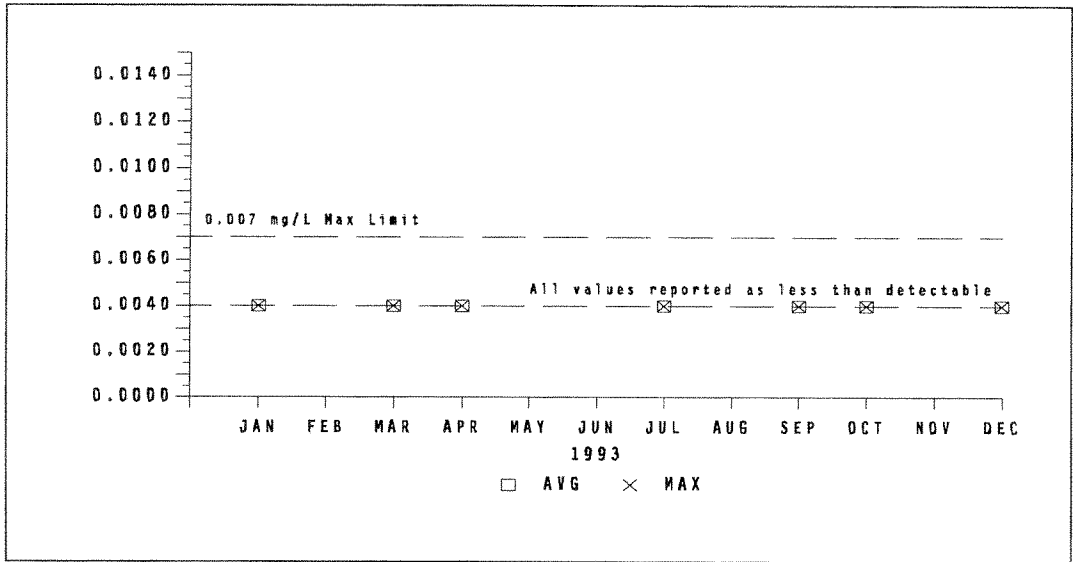


Figure C - 5.16

METALS (COPPER)  
(mg/L)

Outfall 001

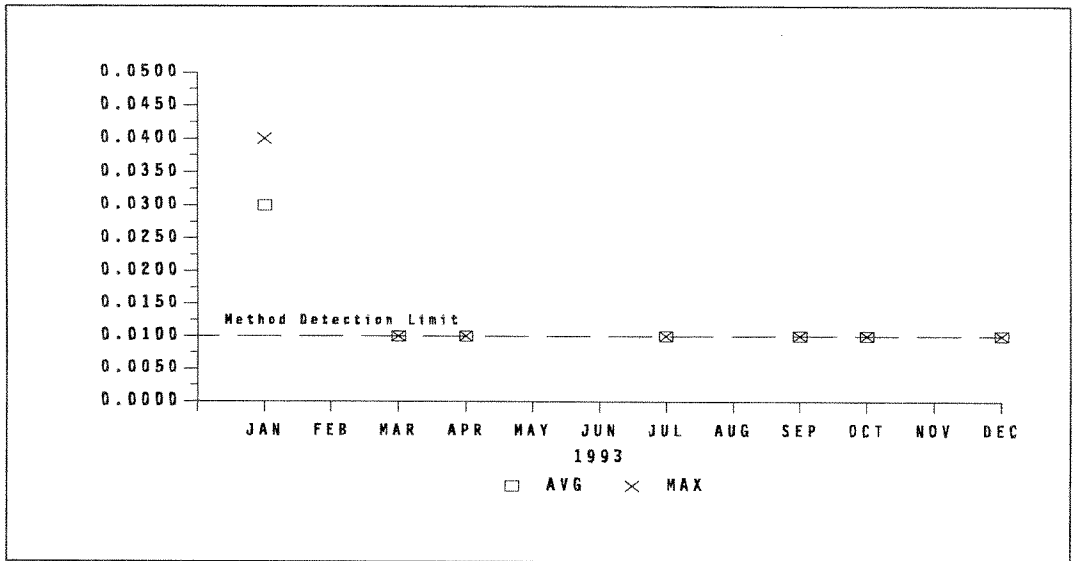




**Figure C - 5.17**

**METALS (CADMIUM)  
(mg/L)**

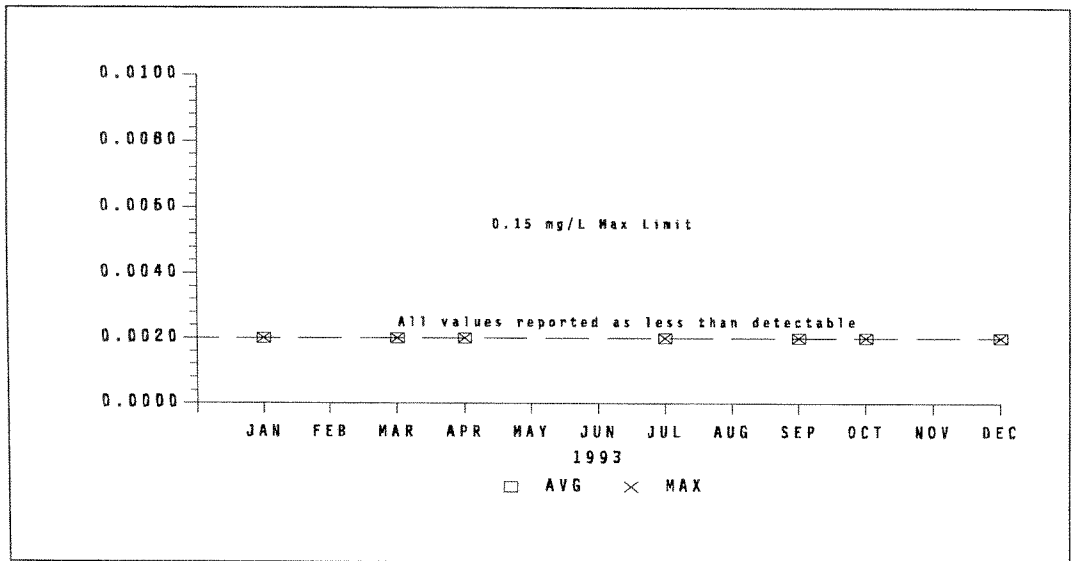
**Outfall 001**



**Figure C - 5.18**

**METALS (CHROMIUM, VI)  
(mg/L)**

**Outfall 001**



**Figure C - 5.19**

**METALS (LEAD)  
(mg/L)**

**Outfall 001**

Figure C - 5.20

NITRATE (NO<sub>3</sub>-N)  
(mg/L)

Outfall 001

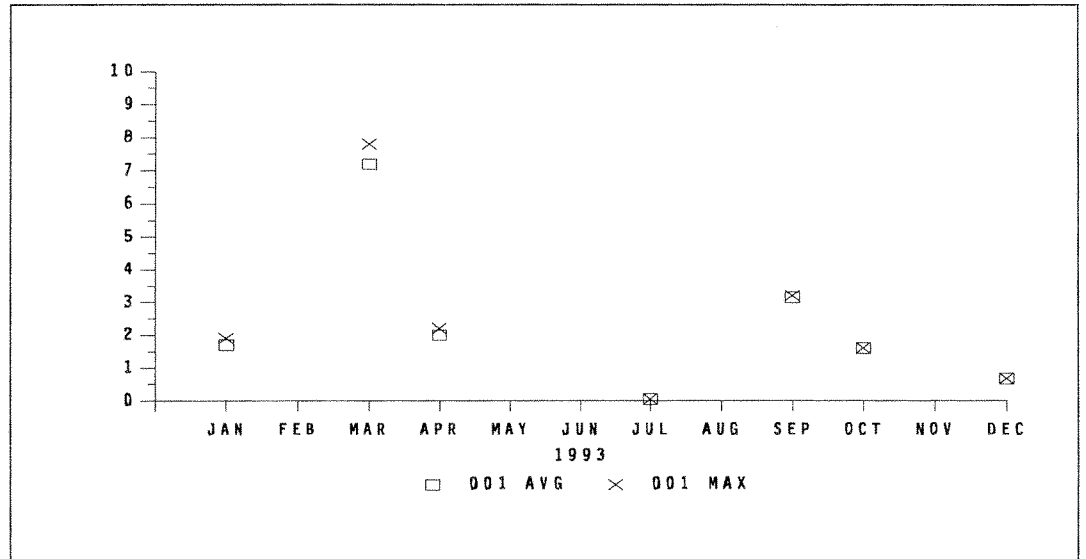


Figure C - 5.21

NITRITE (NO<sub>2</sub>-N)  
(mg/L)

Outfall 001

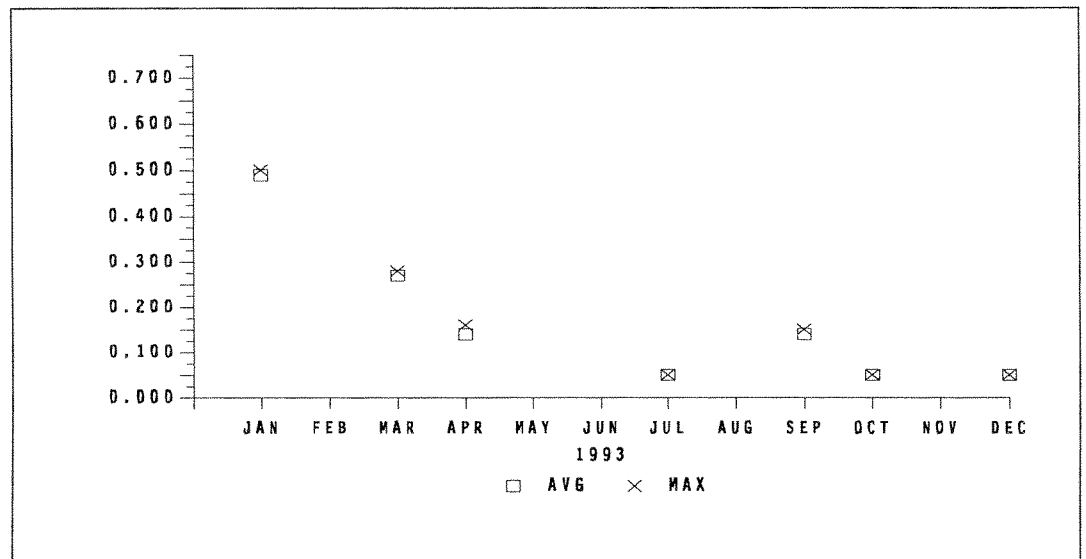
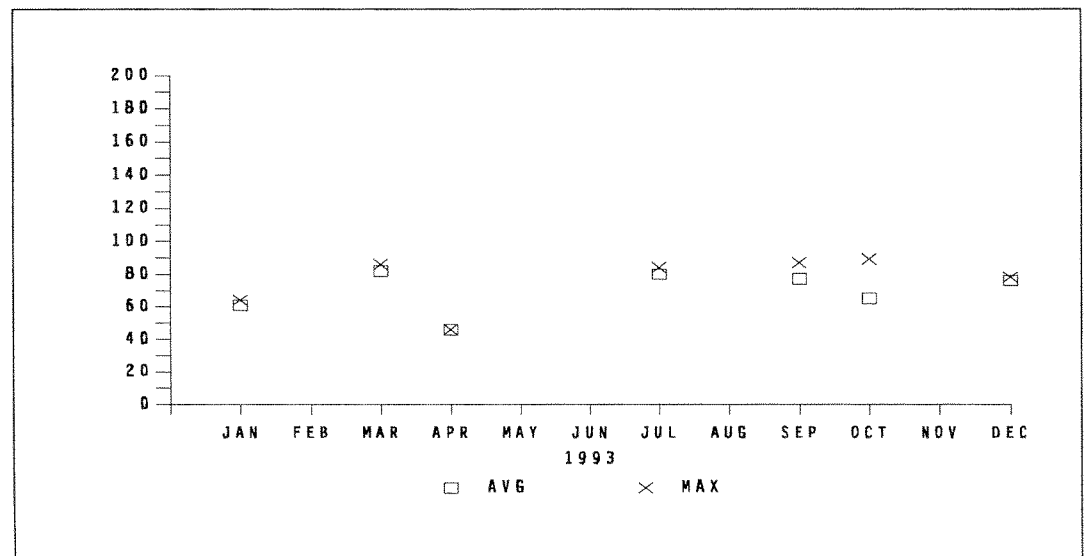
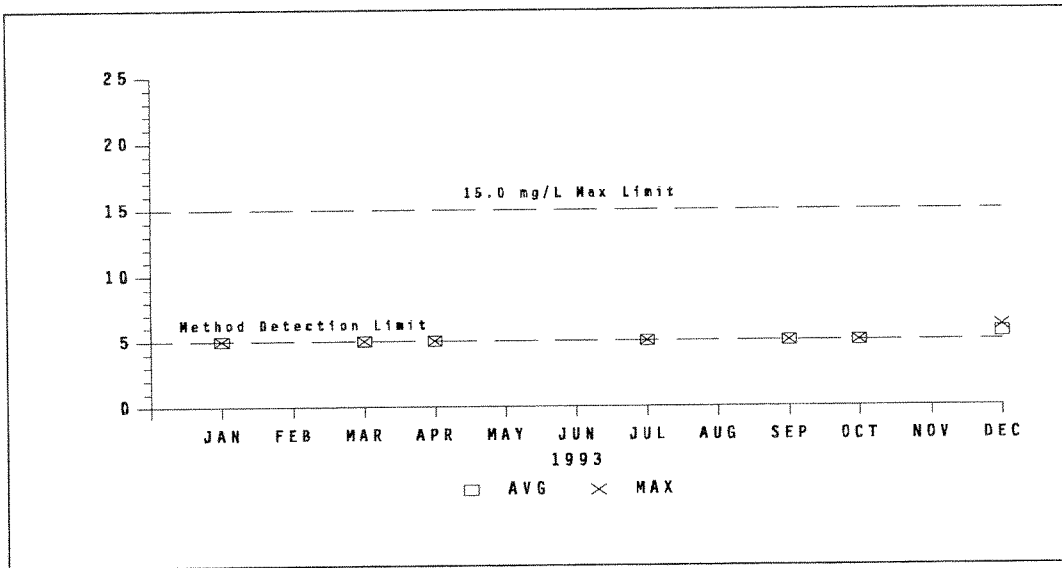


Figure C - 5.22

SULFATE-S  
(mg/L)

Outfall 001

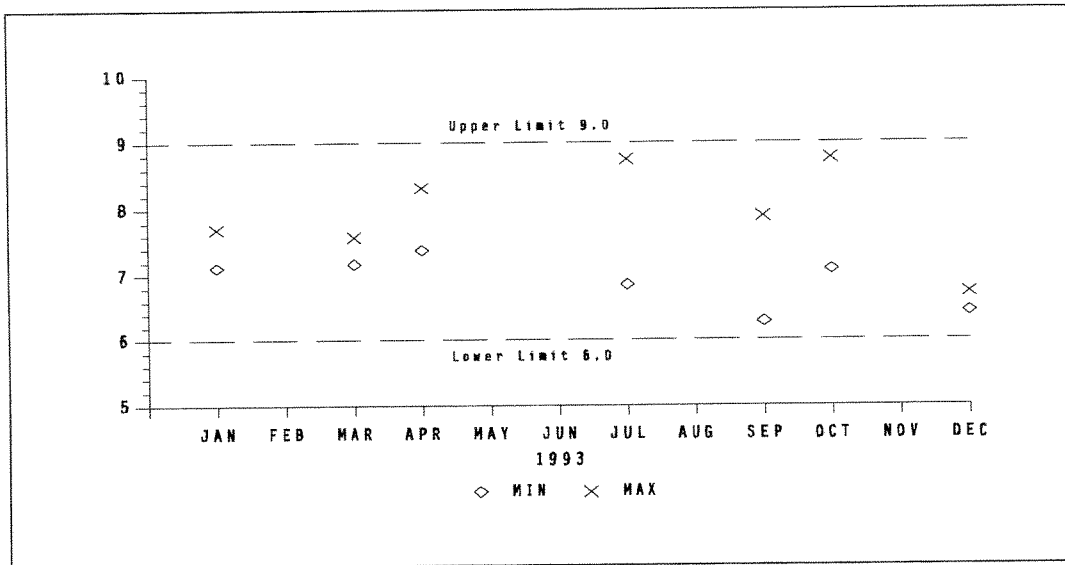




**Figure C - 5.23**

**OIL AND GREASE**  
(mg/L)

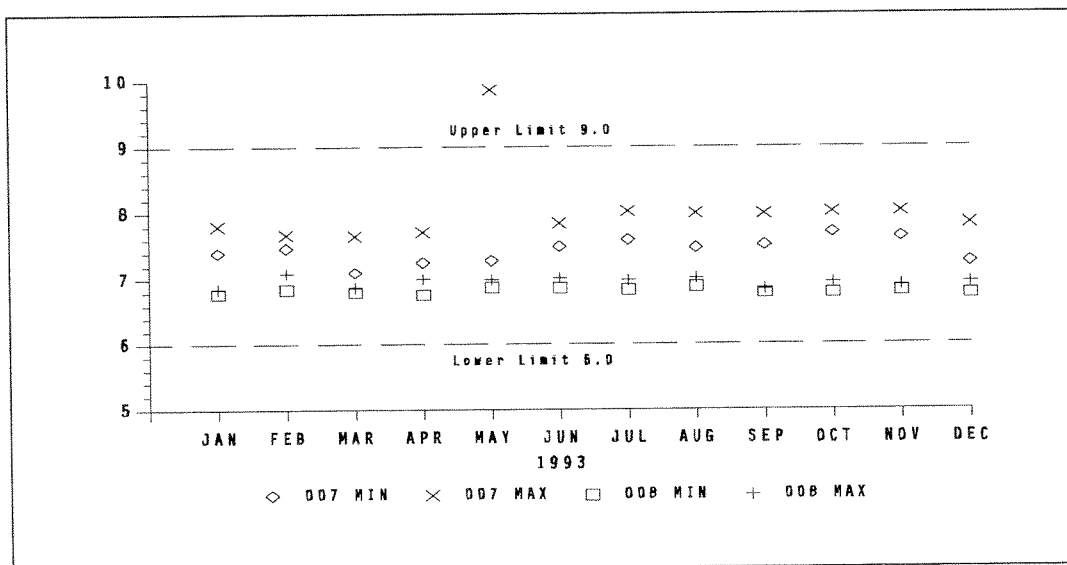
**Outfall 001**



**Figure C - 5.24**

**pH**  
(standard units)

**Outfall 001**



**Figure C - 5.25**

**pH**  
(standard units)

**Outfalls 007**  
**and 008**

Figure C - 5.26

DISCHARGE RATE  
(MGD)

Outfall 001

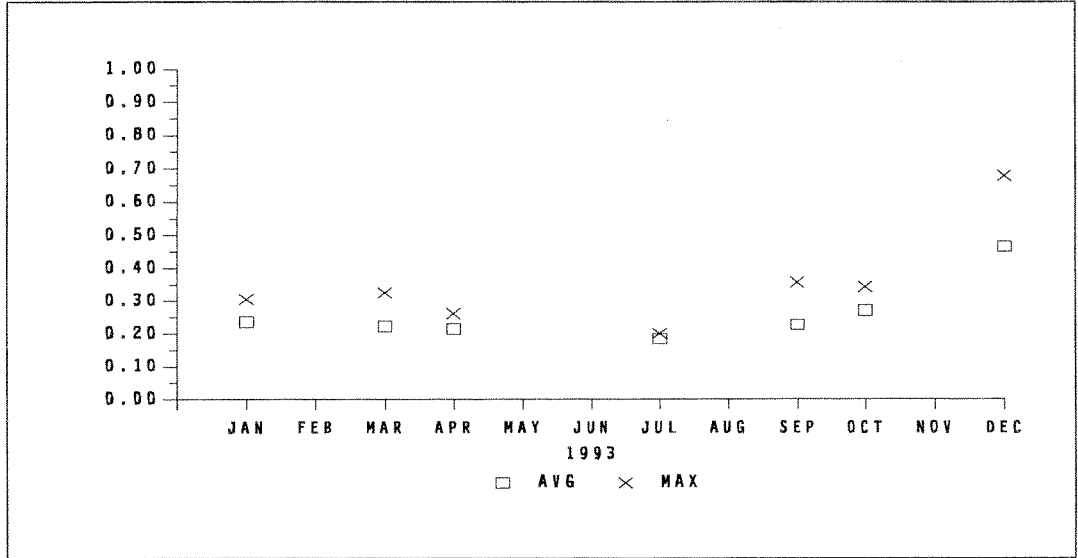


Figure C - 5.27

DISCHARGE RATE  
(GPD X 1,000)

Outfall 007

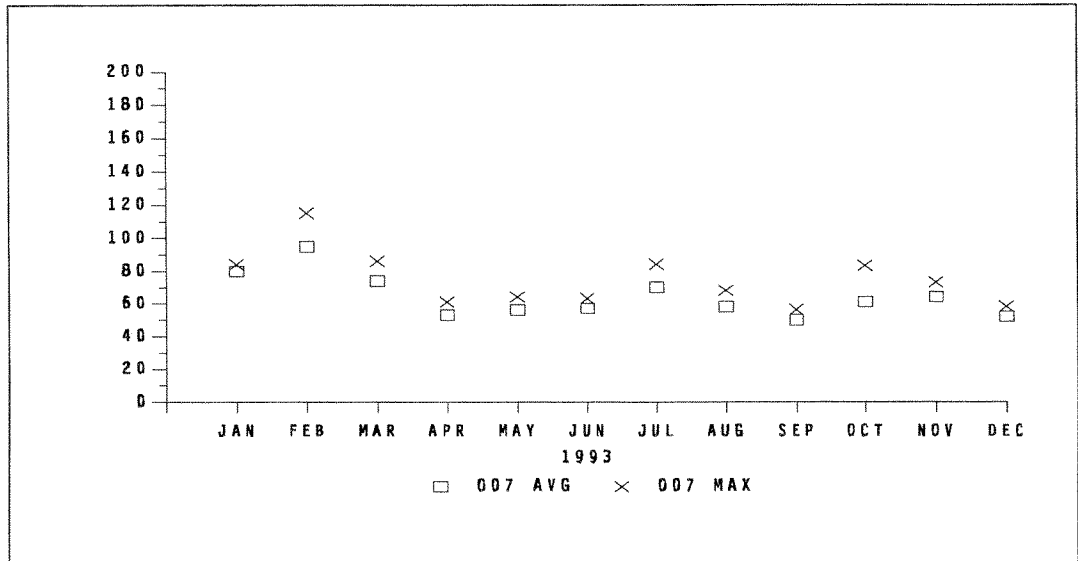
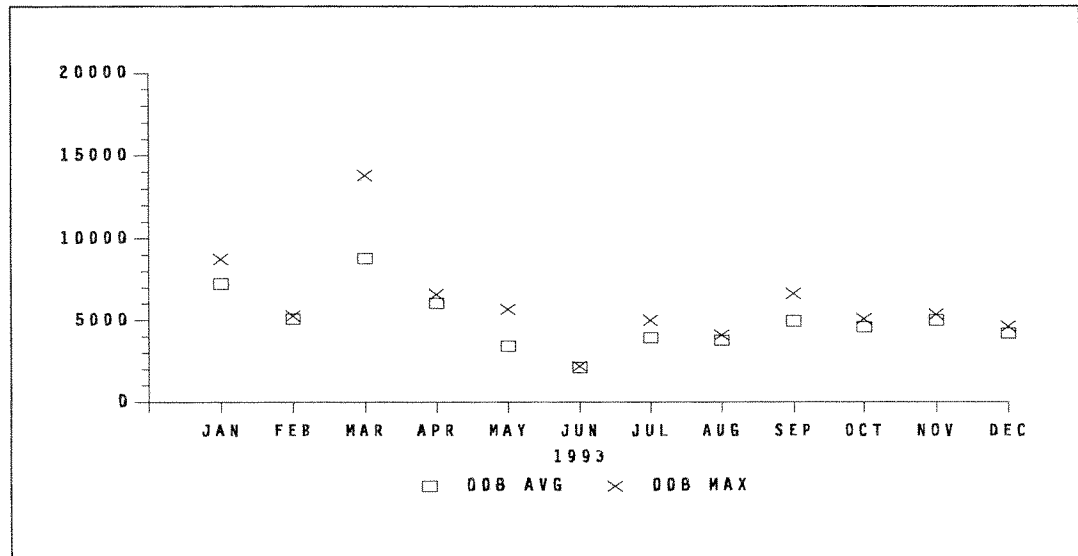
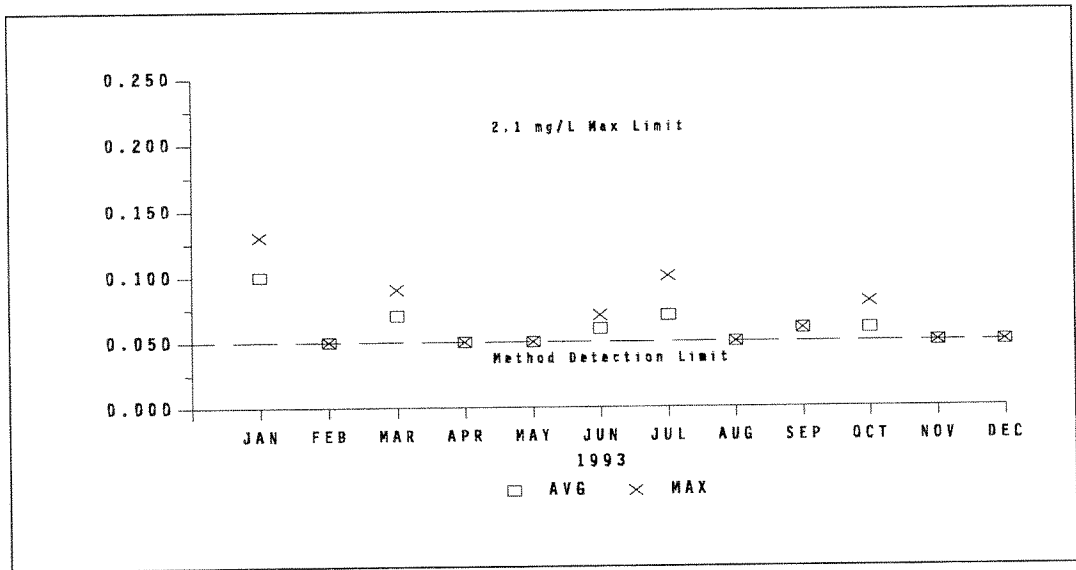


Figure C - 5.28

DISCHARGE RATE  
(GPD)

Outfall 008

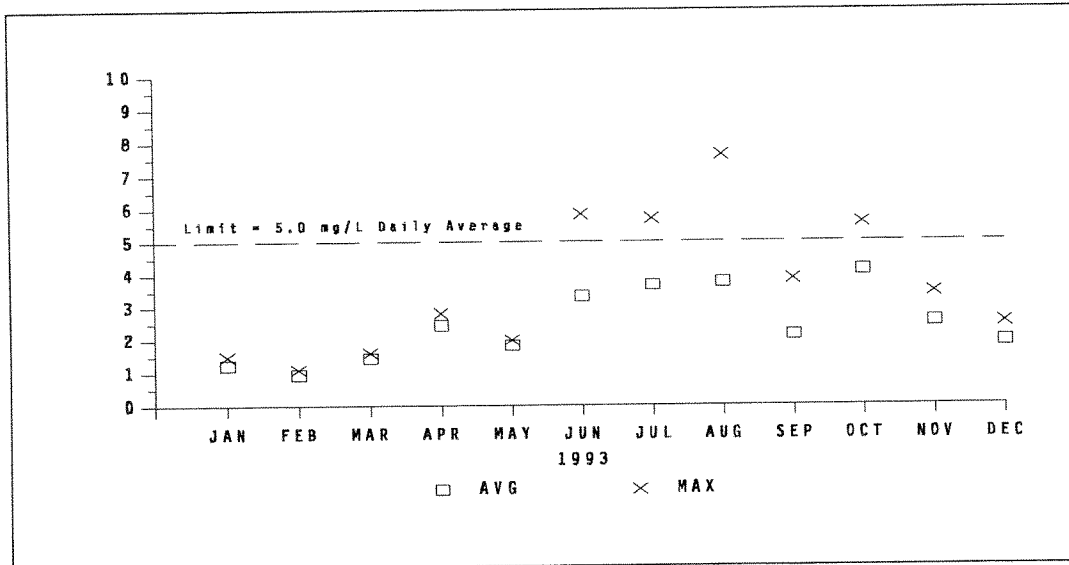




**Figure C - 5.29**

*FLOW-WEIGHTED  
AVERAGES  
(mg/L)*

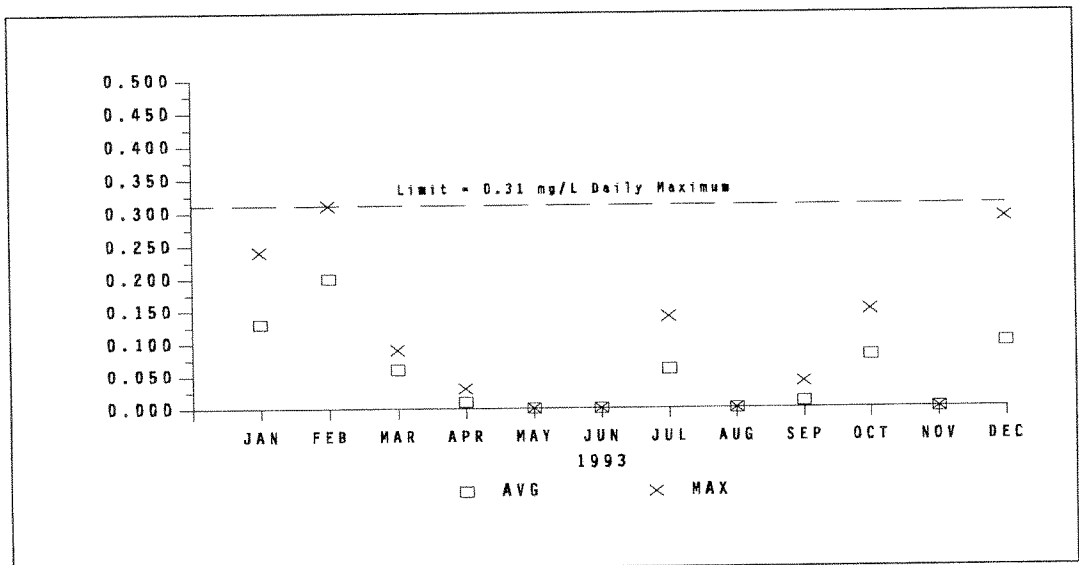
**Ammonia**



**Figure C - 5.30**

*FLOW-WEIGHTED  
AVERAGES  
(mg/L)*

**Biochemical Oxygen  
Demand-5**



**Figure C - 5.31**

*FLOW-WEIGHTED  
AVERAGES  
(mg/L)*

**Iron**

Figure C - 5.32

NICKEL  
(mg/L)

Outfall 001

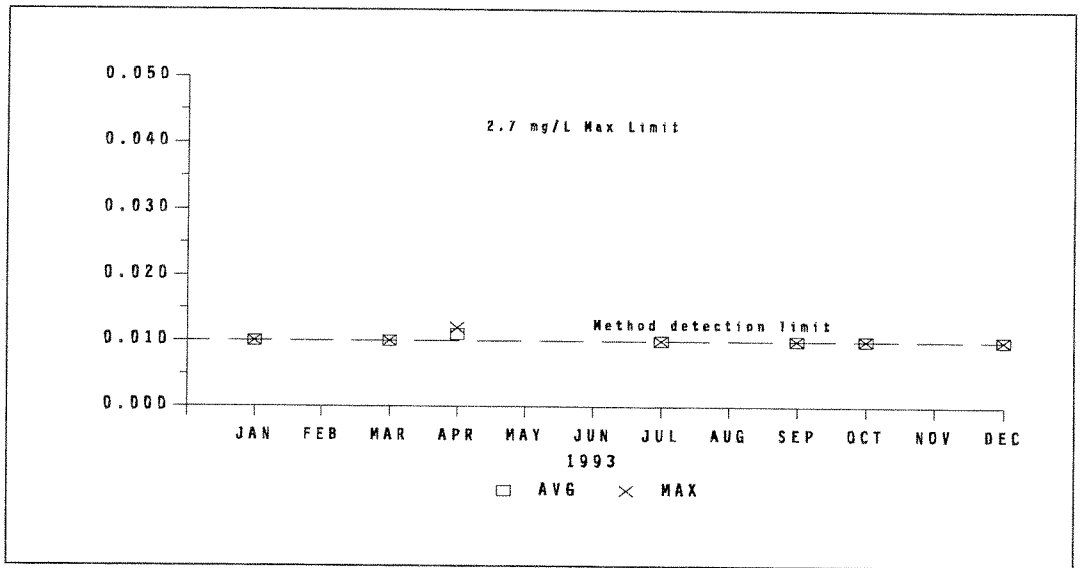


Figure C - 5.33

TRICHLOROFLUOROMETHANE  
(mg/L)

Outfall 001

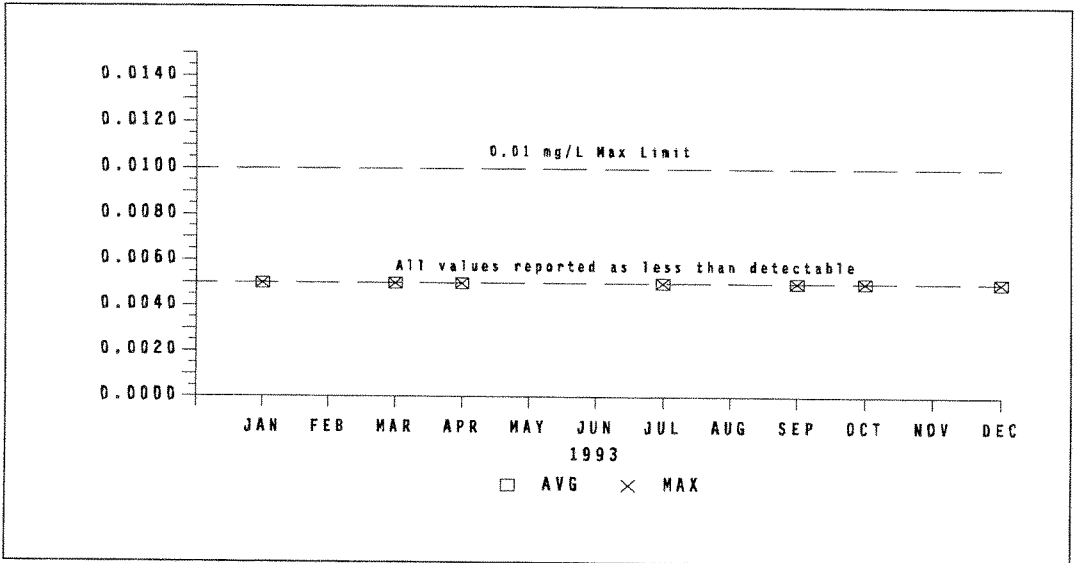
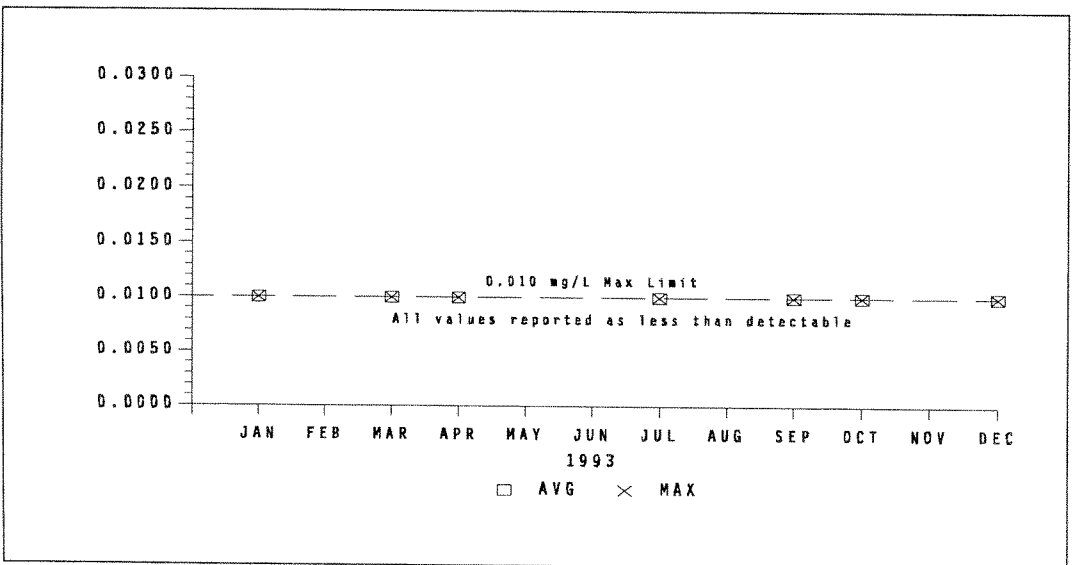
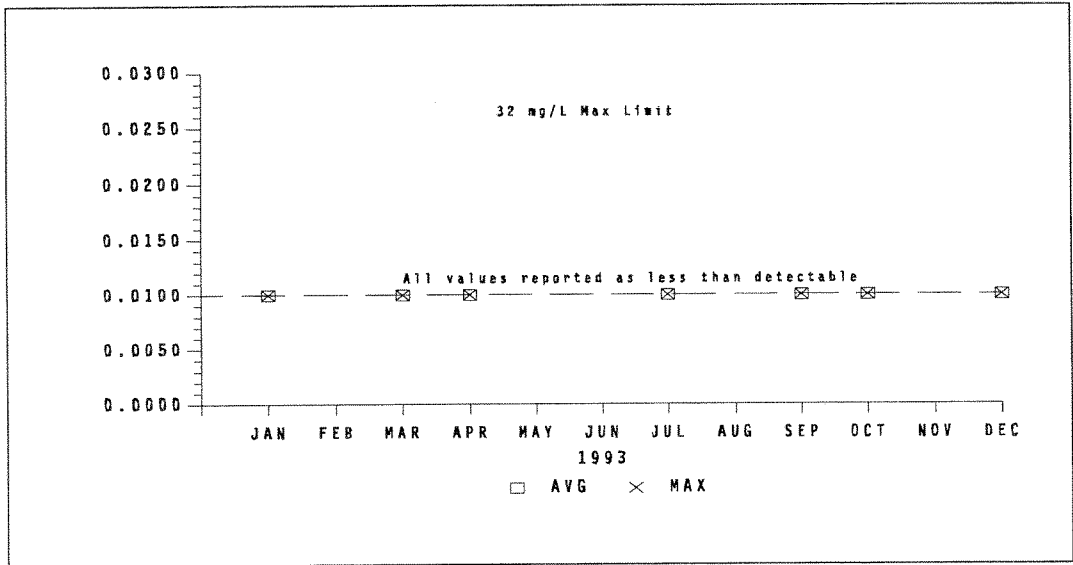


Figure C - 5.34

3,3-DICHLOROBENZIDINE  
(mg/L)

Outfall 001

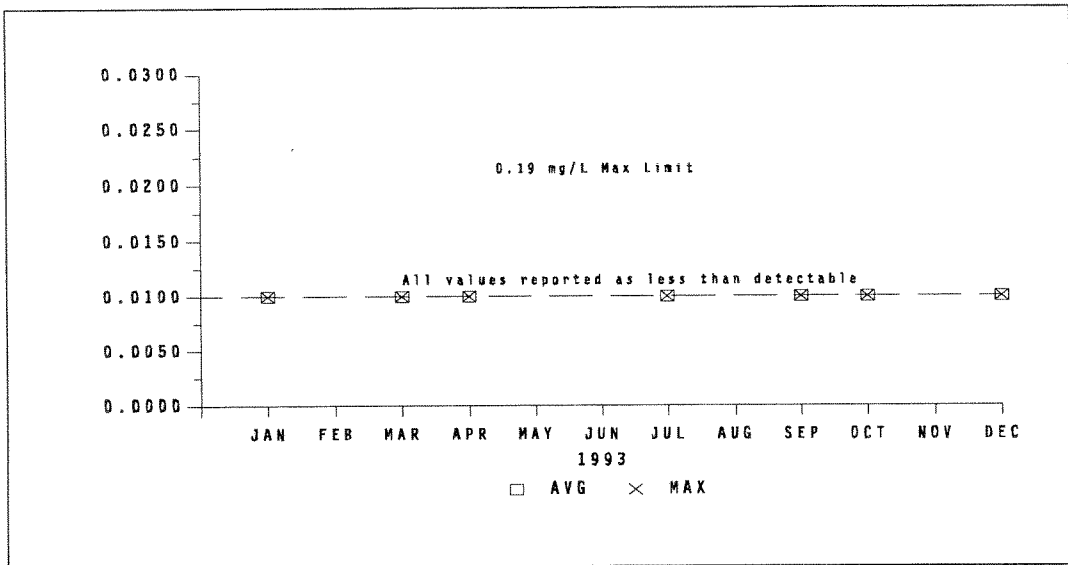




**Figure C - 5.35**

**TRIBUTYL PHOSPHATE  
(mg/L)**

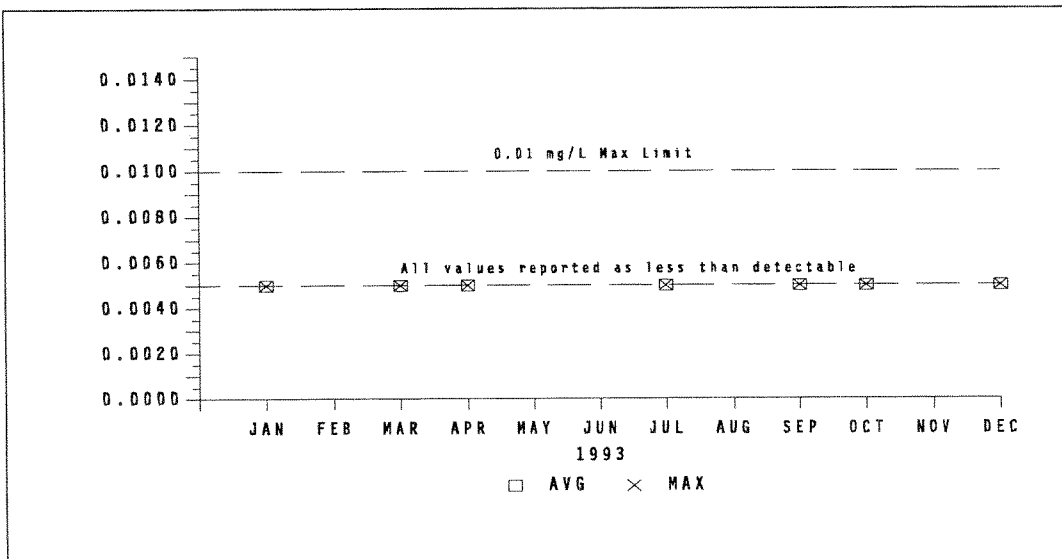
**Outfall 001**



**Figure C - 5.36**

**VANADIUM  
(mg/L)**

**Outfall 001**



**Figure C - 5.37**

**DICHLORODIFLUOROMETHANE  
(mg/L)**

**Outfall 001**